Intel® Server Board *S3000AH*

Tested Hardware and Operating System List

Revision 2.4

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Enterprise Platforms and Services Marketing

Revision History

Date	Revision Number	Modifications
August 2006	1.0	Initial Release
October 2006	2.0	Update adapters, peripherals and Hard Drives section with Q306 regression test run – configuration 2, 3 and 4
November 2006	2.1	Corrected adapter tables for PCI-X adapters, added Hitachi hard disk drives.
January 2007	2.2	Update adapters, peripherals section with Q406 regression test run
April 2007	2.3	Update adapters, peripherals section with Q107 regression test run
July 2007	2.4	Update OSs, adapters, peripherals section with Q207 regression test run

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1. Introduction

This document is intended to provide users of the Intel® server board *S3000AH* with a guide to the different operating systems, adapter cards, and peripherals tested by Intel on this platform.

This document will continue to be updated as new adapters, peripherals, and operating systems are tested or until the Intel® server board *S3000AH* is no longer in production. Each new release of the document will present updated information as well as continue to provide the information from previous releases.

Intel will only provide support for those adapters and peripherals under the specified system configuration (System BIOS and Firmware revisions) and operating systems versions with which they were tested.

1.1 Test Overview

Testing performed on the Intel® server board *S3000AH* is classified under two separate categories: Basic Installation Testing, and Adapter / Peripheral Compatibility and Stress Testing.

1.1.1 Basic Installation Testing

Basic installation testing is performed with each supported operating system. Basic installation testing validates that the server board can install the operating system and that the base hardware feature set is functional. A small set of peripherals is used for installation purposes only. No add-in adapter cards are tested. Testing includes network connectivity and running of proprietary and industry standard test suites.

The latest version of an operating system signifies the latest supported version at the time of the actual test run. Each new release of this document may have a newly supported release of a given operating system. Previous releases of a supported operating system may not be tested beyond the basic installation test process.

1.1.1.1 Support Commitment for Basic Installation Testing

Intel commits to provide the following level of customer support for operating systems that receive only basic installation testing:

- Intel will provide and test operating system drivers for each of the server board's integrated controllers, provided that the controller vendor has a driver available upon request. Vendors will not be required by Intel to develop drivers for operating systems that they do not already support. This may limit the functionality of certain server board integrated controllers.
- Intel will support customer issues that involve installation and/or functionality of operating system with the server board's integrated controllers only if a driver has been made available.

- Intel will NOT provide support for issues related to use of any add-in adapters or peripherals installed in the server system when an operating system that received basic installation testing only is in use.
- Support is defined as assistance in root causing issues, and determining a customer acceptable resolution to the issue associated with the operating system. The resolution may include, but is not limited to, on-board controller driver changes, engaging the vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.

1.1.2 Adapter / Peripheral Compatibility and Stress Testing

Adapter / Peripheral Compatibility and Stress testing is performed only on the most current release of a supported operating system at the time of a given validation run. The Adapter / Peripheral Compatibility and Stress testing process consists of three areas: Base Platform, Adapter Compatibility, and Stress.

Base Platform: Each base platform will successfully install a given operating system, successfully run a disk stress test, and successfully run a network stress test.

Adapter Compatibility: Adapter compatibility validation (CV) testing uses test suites to gain an accurate view of how the server performs with a wide variety of adapters under the primary supported operating systems. These tests are designed to show hardware compatibility between the cards and the server platform and include functional testing only. No heavy stressing of the systems or the cards is performed for CV testing.

Stress Testing: This test sequence uses configurations that include add-in adapters in all available slots, (depending on chassis used) for a minimum 72-hour test run without injecting errors. Each configuration passes an installation test, a Network/Disk Stress test, and tape backup test. Any fatal errors that occur will require a complete test restart.

1.1.2.1 Support Commitment for Adapter / Peripheral Compatibility and Stress Testing

Intel commits to provide the following level of customer support for operating systems that receive Adapter / Peripheral Compatibility and Stress testing:

- Intel will provide support for customer issues with these operating systems involving installation and/or functionality of the server board with or without the adapters and peripherals listed in this document as having been tested under the particular operating system.
- Support is defined as assistance in root causing issues, and determining a customer acceptable resolution to the issue associated with the operating system. The resolution may include, but is not limited to, on-board controller driver changes, engaging the vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.
- Intel will provide and test operating system drivers for each onboard video, network, and storage controller.
- Intel will enable vendors to provide driver support for add-in adapters using these operating systems.

- Intel will go through some of the steps to achieve certification to ensure its customers do not run across any problems, but the actual certification is the responsibility of the individual customer.

For operating systems, adapter cards, and peripherals not listed in this document, there is no support commitment. Intel will consider support requests on a case-by-case basis.

1.2 Pass/Fail Test Criteria

For each operating system, adapter, and peripheral configuration, a test passes if specific criteria are met. Specific configurations may have had particular characteristics that were addressed on a case-by-case basis. In general, a configuration passes testing if the following conditions are met:

- The operating system installed without error.
- Manufacturer's installation instructions or Intel's best-known methods were used for the operating system installation.
- No extraordinary workarounds were required during the operating system installation.
- The server system behaved as expected during and after the operating system installation.
- Application software installed and executed normally.
- Hardware compatibility tests ran to completion without error.
- Test software suites executed successfully
- Test and data files were created in the correct directories without error.
- Files copied from client to server and back compare to the original with zero errors reported.
- Clients remain connected to the server system.
- Industry standard test suites run to completion with zero errors reported.

All Intel® Server Board *S3000AH* testing was performed using the Intel® Entry Server Chassis *SC5295-E.*

2. Intel® Server Board S3000AH Base System Configurations

The following table lists the base system configurations tested. Base system configurations will change as new revisions of the Intel® Server Board *S3000AH* are released and/or new system BIOS is cut onto the board in the factory. Each base system configuration is assigned an identifier number that is referenced in the tables throughout this document. New base system configurations are added with each new release of this document.

Intel will only provide support for adapters and peripherals under the specified base system configuration and operating systems versions with which they were tested.

Base System Configuration Identifier #	Board Type	PBA Number	BIOS Revision	Notes
1	S3000AHV	D52072-203	R28	
2	S3000AHV	D52072-204	R34	
3	S3000AHLX	D40858-204	R34	
4	S3000AH	D40859-204	R34	
5	S3000AHV	D52072-206	R35	
6	S3000AHLX	D40858-206	R35	
7	S3000AH	D40859-206	R35	
8	S3000AHV	D52072-207	R39	
9	S3000AH	D40858-207	R39	
10	S3000AHLX	D40859-207	R39	
11	S3000AHV	D52072-207	R41	
12	S3000AH	D40858-207	R41	
13	S3000AHLX	D40859-207	R41	

3. Supported Operating Systems

The following table provides a list of supported operating systems for the Intel® Server Board *S3000AH*. Each of the listed operating systems was tested for compatibility with Intel® Server Board *S3000AH* base system configuration listed in Section 2 of this document. Operating systems are supported only with the specified base system configuration(s) with which they were tested.

The following table also indicates whether each operating system received Basic Installation Testing, or Adapter / Peripheral Compatibility and Stress Testing. For information on the support commitments for Basic Installation Testing vs. Adapter / Peripheral Compatibility and Stress Testing, please reference Section 1 of this document.

Any variations to the standard operating system installation process are documented in the Installation Guidelines section of this document. If there is no installation guidelines noted in the following table, then the operating system installed as expected using manufacturer's installation instructions or Intel's best-known methods.

Operating systems supported by Intel® System Management software or LANDesk* Client Manager software may be different than the operating systems supported by the Intel® Server Board *S3000AH*. Please reference the Readme and User Guide documents that are included as part of each Intel Server Management and LANDesk* Client Manager distribution for operating systems that are supported by that release.

Operating System	Base System Configuration Tested & Type of Testing	Notes
Microsoft Windows Server 2003* Enterprise Edition, SP2/ Microsoft Windows Small Business Server 2003*	Configuration 1, 5 ,6, 7, 8, 9, 10, 11, 12, 13 – Compatibility & Stress	Intel's testing was completed with Microsoft Windows Server 2003*. The Intel® Server Board S3000AH supports the operating system portion of Microsoft Windows Small Business Server 2003* only. The application portion is not tested or supported.
Microsoft Windows Server 2003* Enterprise Edition for EM64T, SP2	Configuration 1, 5, 6, 7, 8, 9, 10, 11, 12, 13 – Compatibility & Stress	Intel's testing was completed with Microsoft Windows Server 2003*. The Intel® Server Board S3000AH supports the operating system portion of Microsoft Windows Small Business Server 2003* only. The application portion is not tested or supported.
SuSE* Linux Enterprise Server 9, SP3	Configuration 1 – Compatibility & Stress	
SuSE* Linux Enterprise Server 9, EM64T, SP3	Configuration 1 – Compatibility & Stress	
RedHat* Enterprise Linux 4.0 AS, Update 2	Configuration 1 –	

	Compatibility & Stress	
RedHat* Enterprise Linux 4.0 AS, EM64T, Update 2	Configuration 1 – Compatibility & Stress	
SuSE* Linux Enterprise Server 10	Configuration 5, 6, 7, 8, 9, 10,11,12,13 – Compatibility & Stress	
SuSE* Linux Enterprise Server 10, EM64T	Configuration 5, 6, 7, 8, 9, 10,11,12,13 – Compatibility & Stress	
RedHat* Enterprise Linux 4.0 AS, Update 4	Configuration 5, 6, 7, 8, 9, 10 – Compatibility & Stress	
RedHat* Enterprise Linux 4.0 AS, EM64T, Update4	Configuration 5, 6, 7, 8, 9, 10 – Compatibility & Stress	
RedHat* Enterprise Linux 5.0	Configuration 11,12,13 – Compatibility & Stress	
RedHat* Enterprise Linux 5.0, EM64T	Configuration 11,12,13 – Compatibility & Stress	
Microsoft Windows XP Professional*, SP2	Configuration 1, 5, 6, 7 – Basic Installation	
Microsoft Windows XP Professional*, EM64T, SP2	Configuration 1, 5, 6, 7– Basic Installation	
Novell* NetWare 6.5, SP5	Configuration 1, 5, 6, 7, 8, 9, 10,11,12,13 – Basic installation	
Microsoft Windows 2000 Advanced Server*, SP4 /Microsoft Windows Small Business Server 2000*	Configuration 1, 5, 6, 7, 8, 9, 10,11,12,13 – Basic Installation	Intel's testing was completed with Microsoft Windows 2000 Server*. The Intel® Server Board S3000AH supports the operating system portion of Microsoft Windows Small Business Server 2000* only. The application portion is not tested or supported.
Windows Vista Enterprise	Configuration 8, 9, 10,11,12,13 – Basic Installation	
Windows Vista Enterprise EM64T	Configuration 8, 9, 10,11,12,13 – Basic Installation	
RedHat* Enterprise Linux 3.0 Update 8, EM64T	Configuration 11,12,13 – Basic Installation	

3.1 Operating System Certifications

Listed below are the operating systems that Intel will certify with the Intel® Server Board S3000AH. However, the customer is responsible for their own certification from the individual

operating system vendors. In many cases, the customer may leverage their operating system certifications from Intel's testing. See the "Comments" section next to each operating system in the table below for additional information. Intel's certifications, pre-certification, and operating system testing may help reduce some of the risk in achieving customer certifications with the operating system vendors.

Operating System	Certification Listing	Comments
Microsoft Windows 2003*, Enterprise Edition	WHQL ID: 1211868 (S3000AHLX) 1211903 (S3000AH) 1211673 (S3000AHV)	http://developer.intel.com/design/servers/whql.htm
Microsoft Windows 2000*, Advanced Server		WHQL logo for Microsoft Windows2000* is not reqiuired after Nov.1, 2004.
RedHat* Enterprise Linux 4.0 AS, Update2	Certified ID: 205175 (S3000AHLX) 203491 (S3000AH) 206250 (S3000AHV)	
RedHat* Enterprise Linus 4.0 AS Update2, EM64T	Certified ID: 205177 (S3000AHLX) 203491 (S3000AH) 206252 (S3000AHV)	
SuSE* Linux Enterprise Server 9, SP3	Certified ID: 85836, 85837 (S3000AHLX) 85921, 85922 (S3000AH) 85724, 85723 (S3000AHV)	
SuSE* Linux Enterprise Server 9, EM64T, SP3	Certified ID: 85835, 85838 (S3000AHLX) 85919, 85920 (S3000AH) 85722, 85725 (S3000AHV)	
Microsoft Windows Server 2003* EE for EM64T	WHQL ID: 1211868 (S3000AHLX) 1211903 (S3000AH) 1211673 (S3000AHV)	http://developer.intel.com/design/servers/whql.htm

4. Adapters and Peripherals

Add-in adapter card and peripheral compatibility and stress testing will only be performed with the latest version of an operating system at the time the validation testing occurred. The following table shows the operating system and base system configurations used to validate each device. The adapters are divided into categories based on their functionality. All integrated on-board devices are tested by default and are therefore not included in the following tables.

Note that not all adapter cards were tested under all operating systems. The following notation is used in the tested adapters and peripherals table below to indicate the support level that Intel provides for a particular adapter under a particular operating system:

Number (i.e. 1)	This adapter or peripheral has been tested and is supported under the specific configuration identified in the Base System Configurations Table in Section 2 of this document.
Number in brackets (i.e. [1])	This adapter or peripheral has been tested, but is NOT supported under the specific configuration identified in the Base System Configurations Table in Section 2 of this document.
NT	This adapter or peripheral has not been tested under this operating system and is not supported under this operating system.
ND	This adapter or peripheral has not been tested under this operating system due to limitations in IHV driver availability, and is not suported under this operating system.
SA (Similar Adapter)	This adapter is supported, but not tested. This adapter model has not been tested with this server board, but Intel will support it based on successful testing of a similar adapter from the same adapter family. Intel has high confidence that this adapter will function correctly with the server board. This adapter uses the same firmware and drivers, and has a nearly identical system interface to another adapter of the same family that has been successfully tested with this server board. In addition, Intel has secured IHV commitment to support the similar adapters equally. Customers should always test adapters as part of the final system configuration prior to deployment. All installation guidelines for the tested adapter also apply to the similar adapter.

Any variations to the standard adapter installation process or to expected adapter functionality are documented in the Installation Guidelines section of this document. If there are installation guidelines affecting a particular adapter and operating system combination, these are referenced in the following table. If there are no installation guidelines noted in the following table, then the adapter installed and functioned as expected using manufacturer's installation instructions or Intel's best-known methods.

Testing of adapters cards normally is performed with unused add-in adapters and onboard controller expansion ROMs disabled in BIOS Setup. Intel recommends that customers disable the option ROM for add-in controllers and/or the on-board controllers when not booting from the controller or needing to use its built in utilities.

Vendor	Model	Description	Interface	Keying	Form Factor	Microsoft Windows 2003* EE	Microsoft Windows Server 2003* EE EM64T	RedHat* EL4 Update2	RedHat* EL4 Update2 EM64T	SuSE* Linux ES9 SP3	SuSE* Linux ES9 SP3 EM64T	RedHat* EL4 Update4	RedHat* EL4 Update4 EM64T	RedHat* Linix 5	RedHat* Linux 5 EM64T	SuSE* Linux ES10	SuSE* Linux ES 10
Fiber Channel Cards																	
QLogic	QLE2360	Single Channel, 2Gb	PCI Express*	X4	PCI-Short	1	1	1	1	1	1						
Logic	QLE2362	Dual Channel, 2Gb	PCI Express	X4	PCI-Short	1	1	1	1	1	1						
QLogic	QLA2340	Single Channel, 2Gb	PCI-X* 133	Universal	PCI-Short	3	3	3	3	3	3						
QLogic	QLA2342	Dual Channel, 2Gb	PCI-X 133	Universal	PCI-Short	3,	3	3	3	3	3						
Network Interface Controllers (NICs)																	
Intel	PILA8470D3	PRO100+ S Server	PCI-32/33	Universal	PCI-Short	1, 2, 3, 4,5,6, 7,11, 12,13	1, 2, 3, 4,5,6,7, 11,12, 13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Intel	PILA8472C3	Pro/100+ Dual Port	PCI-64/66	Universal	PCI-Short	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Intel	PWLA8490MT	Pro/1000MT Gigabit Server	PXI-X 133	Universal	PCI-LP/RP	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Intel	PWLA8492MT	Pro/1000MT Dual Port Gigabit Server	PXI-X 133	Universal	PCI-LP/RP	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Intel	EXPI9300PT	1 port, 1GbE	PCI Express	X1	PCI-Short	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Intel	EXPI9400PT	1 port 1000Base-T,	PCI Express	X1	PCI-Short	1, 2, 3, 4, 5, 6,	1, 2, 3, 4, 5, 6,	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9,	5, 6, 7, 8, 9,	11, 12,	11,12,13	5, 6, 7, 8, 9,	5, 6, 7, 8, 9,

		1Gb				7, 8, 9, 10,11, 12,13	7, 8, 9, 10,11, 12,13					10	10	13		10,11, 12,13	10,11, 12,13
Intel	EXPI9402PT	2 port 1000Base-T, 1Gb	PCI Express	X4	PCI-Short	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Syskonnect*	SK-9E21D	1 port 10/100/1000 LAN	PCI Express	X1	PCI-Short	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Syskonnect	SK-9E22	2 port 10/100/1000 LAN	PCI Express	X4	PCI-Short	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
SCSI RAID Controllers																	
Intel	SRCU42E	2 channel, U320	PCI Express	X8	PCI-Med	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7,8,9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Intel	SRCU41L	1 channel, U320	PCI-64/66	Universal	PCI-LP/RP	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
LSI Logic	MegaRAID SCSI 320-2	2 channel, U320	PCI-64/66	Universal	PCI-Short	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
LSI Logic	MegaRAID SCSI 320-1	1 channel, U320	PCI-64/66	Universal	PCI-Short	SA	SA	SA	SA	SA	SA						
Intel	SRCU42X	2 channel, U320	PCI-X 133	Universal	PCI-Short	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7,8,9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12,13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
LSI Logic*	MegaRAID	2 channel, U320	PCI	X8	PCI-Med	1, 2, 3,	1, 2, 3,	1, 2,	1, 2, 3,	1, 2, 3,	1, 2, 3,	5, 6, 7,	5, 6, 7,			5, 6, 7,	5, 6, 7,

	SCSI 320-2E		Express			4, 5, 6, 7, 8, 9, 10,11, 12,13	4, 5, 6, 7,8,9, 10,11, 12,13	3, 4	4	4	4	8, 9, 10	8, 9, 10			8, 9, 10,11, 12,13	8, 9, 10,11, 12,13
SATA RAID Controllers																	
Adaptec*	AAR-2410SA	4-port, SATA 1.0, RAID 0, 1. 2x Silicon Image w/Zion	PCI-64/66	Universal	PCI-LP	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Intel	SRCS16	6 port, SATA 1.5G, RAID 0, 1, 10, 5, 50	PCI-64/66	Universal	PCI-Med	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Intel	SRCS28X	8 port SATA 3.0G, RAID 0, 1, 10, 5, 50	PCI-X 133	Universal	PCI-Short	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
LSI Logic	MegaRAID SATA 150-6	6 port SATA 1.5G, RAID 0, 1, 10, 5	PCI-64/66	Universal	PCI-Short	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
3ware **(see note2)	**9650SE-2LP**	2 port SATA, RAID 0, 1, and JBOD	PCI Express	X1	PCI-LP	11,12, 13	11,12, 13							11, 12, 13	11,12, 13	11,12,13	11,12, 13
SAS RAID Controllers																	
Intel	SRCSAS18E	SAS 3GB 8 internal ports	PCI Express	X8	PCI-Med	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Intel	SRCSAS144E	SAS 3GB 4 internal ports	PCI Express	X4	PCI-Med	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Adaptec	ASR-4805SAS	8-port SAS, 128MB DDR2	PCI Express	X8	PCI-Med	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4						
Adaptec	ASC-48300	8 port SAS	PCI-X 133	Universal	PCI-LP/RP	3, 5, 6,	3, 5, 6,	3	3	3	3	5, 6, 7,	5, 6, 7,	11,	11,12,	5, 6, 7,	5, 6, 7,

						7, 8, 9, 10,11, 12,13	7, 8, 9, 10,11, 12,13					8, 9, 10	8, 9, 10	12, 13	13	8, 9, 10,11, 12,13	8, 9, 10,11, 12,13
LSI Logic	3442x	8 port SW SAS RAID	PCI-X 133	Universal	PCI-LP/RP	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
LSI Logic	SAS3442E-R	8 port SW SAS RAID	PCI Express	X4	PCI-LP/RP	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13					5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
LSI Logic	MegaRAID SAS 8480E	Brockton/1068 SAS 3GB 8 external ports	PCI Express	X8	PCI-Med	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4						
LSI Logic	MegaRAID SAS 8308ELP	Brockton/1068 SAS 3GB 8 internal ports	PCI Express	X4	PCI-LP/RP	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13	SA	SA	SA	SA	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
LSI Logic	MegaRAID SAS 8344ELP	Brockton/1068 SAS 3GB 4 internal / 4 external ports	PCI Express	X4	PCI-LP/RP	SA	SA	SA	SA	SA	SA						
LSI Logic	MegaRAID SAS 8408E	Brockton/1068 SAS 3GB 8 internal ports	PCI Express	X8	PCI-Med	SA	SA	SA	SA	SA	SA						
SCSI Controllers																	
LSI Logic	LSI22320-R	2 channel U320 SCSI	PCI-X 133	Universal	PCI-Short	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Adaptec	ASC-39320A-R	2 channel U320 SCSI, 2 external / 2 internal connectors	PCI-X 133	Universal	PCI-Short	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Adaptec	ASC-29320ALP-R	1 channel U320 SCSI, 1 external / 1 internal	PCI-X 133	Universal	PCI-LP/RP	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13

LSI Logic	LSI20160	1 channel U160 SCSI, for tape drive only	PCI-32/33	Universal	PCI-LP/RP	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Adaptec	ASC-29160	1 channel U160, for tape drive only	PCI-64/66	Universal	PCI-Short	3, 5, 6, 7, 8, 9, 10,11, 12,13	3, 5, 6, 7, 8, 9, 10,11, 12,13	3	3	3	3	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 9, 10	11, 12, 13	11,12, 13	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Video Controllers																	
ATI*	RADEON 9200 128MB DDR PCI	PCI video with dual monitor support	PCI-32/33	Universal	PCI-Med	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4						
USB Drives																	
Maxtor*	E01G300	Maxtor One Touch II	USB 2.0		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
CD-ROM Drives																	
Mitsumi*	SR244W1	SR244W1	IDE/Slimline		5.25x0.5	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7	5, 6, 7			5, 6, 7	5, 6, 7
TEAC*	CD552E/B/S	CD-552E	ATA		5.25x1.6	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12	5, 6, 7, 8, 9, 10,11, 12,13
CD-RW Drives																	
Sony*	CRX230AD/K	CRX230AD/K	ATA33		5.25x1.6	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7,	5, 6, 7			5, 6, 7	5, 6, 7
CD-RW / DVDROM Combo Drives																	
Lite On*	LSC-24082KX	LSC-24082KX	USB 2.0		external	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4						
Toshiba*	SD-R2212	SD-R2212	IDE/Slimline		5.25x0.5	1, 2, 3, 4, 5, 6, 7, 8, 9,	1, 2, 3, 4, 5, 6, 7, 8, 9,	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11,	5, 6, 7, 8, 9, 10,11,			5, 6, 7, 8, 9, 10,11,	5, 6, 7, 8, 9, 10,11,

						10,11, 12,13	10,11, 12,13					12,13	12,13			12,13	12,13
Samsung*	SH-R522	SH-R522	ATA33		5.25x1.6	1, 2, 3, 4, 5, 6, 7,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Addonics*	AEPDVRW888UM	AEPDVRW888UM	USB 2.0		External	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13					5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
DVD±R/RW CD-R/RW Drives																	
Plextor*	PX-740UF	PX-740UF	USB 2.0		5.25x1.6	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
HLDS	GWA-4082N	GWA-4082N	IDE/Slimline		5.25x0.5	2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
DVD ROM Drives																	
Toshiba	SD-M1912	SD-M1912	IDE		5.25x1.6	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7,11,12, 13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10, 11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Sony	DRX-720UL	DRX-720UL	USB 2.0		External	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7	5, 6, 7			5, 6, 7	5, 6, 7
TEAC	DV-28EN83	DV-28E	IDE/Slimline		5.25x0.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10, 11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Input Devices																	
AOpen*	KB858	KB-858	PS/2		External	1, 2, 3,	1, 2, 3,	1, 2,	1, 2, 3,	1, 2, 3,	1, 2, 3,	5, 6, 7,	5, 6, 7,			5, 6, 7,	5, 6, 7,

	Keyboard PS/2					4, 5, 6, 7, 8, 9, 10,11, 12,13	4, 5, 6, 7, 8, 9, 10,11, 12,13	3, 4	4	4	4	8, 9, 10,11, 12,13	8, 9, 10,11, 12,13			8, 9, 10,11, 12,13	8, 9, 10,11, 12,13
AOpen	O 35M	Mini Optical Mouse	PS/2 and USB		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Logitech*	931145-403	Logitech Optical Mouse	PS/2 and USB		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Logitech	967415-0403	Logitech Media Keyboard	PS/2 and USB		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Microsoft*	B75-00092	Intellimouse Optical	PS/2 and USB		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
KVM switches																
Belkin*	F1DA108T	Omniview Pro2 Series	PS/2		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Modems																
3COM*	USR3453B	V.Everthing 56K Analog Corporate Modem	RS-232		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Removable Media Devices																
Iomega*	SKU 33136	Micro Mini™ 1GB Drive	USB 2.0		External	1, 2, 3, 4, 5, 6,	1, 2, 3, 4, 5, 6,	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7	5, 6, 7			5, 6, 7	5, 6, 7

						7	7										
Lexar*	JD1GB-80-231	1GB USB Flash Drive	USB 2.0		External	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7	5, 6, 7			5, 6, 7	5, 6, 7
Mitsumi	D353FUE	D353FUE	USB		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Sony	PCGA-UFD5	VAIO External USB floppy	USB		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
TEAC	FD-235HF	FD-235HF	Floppy		3.5x1	1, 5, 6, 7	1, 5, 6, 7	1	1	1	1	5, 6, 7	5, 6, 7			5, 6, 7	5, 6, 7
San Disk*	SDCZ2-4096	Cruzer 4GB	USB 2.0		External	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
PNY*	P-FD02GU206	2GB USB Flash Drive	USB 2.0		External	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13					5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Tape Drives																	
Certance*	STD2401LW-S	Certance DAT 40	SCSI-U2		3.5x1.6	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12,13	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13
Sony	SDX-700C/BM	AIT-3 Desktop	SCSI-U160		3.5x1.6	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	5, 6, 7	5, 6, 7			5, 6, 7	5, 6, 7
Quantum	CD72SH-SB	DAT 72	SATA-300		3.5x1.6	5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13					5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13			5, 6, 7, 8, 9, 10,11, 12,13	5, 6, 7, 8, 9, 10,11, 12,13

1. Notes: *Blue shading indicates that device is available in a lead-free version.*

2. Notes: Don't select virtualization option on addition task with 3ware HBA populated during RHEL5 installation process. Otherwise the RHEL5 installation will not be completed